

Freeform Search

Database:	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins
Term:	('20020023215' '2747794') [ABPN1, NRPN, PN, TBAN, WKU]
Display:	10 Documents in <u>Display Format:</u> [-] Starting with Number [1]
Generate:	<input type="radio"/> Hit List <input checked="" type="radio"/> Hit Count <input type="radio"/> Side by Side <input type="radio"/> Image

Search **Clear** **Interrupt**

Search History

DATE: **Tuesday, January 17, 2006** [Printable Copy](#) [Create Case](#)

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side by side			result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;</i>			
<i>OP=OR</i>			
<u>L9</u>	('20020023215' '2747794') [ABPN1, NRPN, PN, TBAN, WKU]	6	<u>L9</u>
<u>L8</u>	('20020023215' '2747794') [URPN]	0	<u>L8</u>
<u>L7</u>	L6 and (cell\$ and transaction)	2	<u>L7</u>
<u>L6</u>	L1 or l2	29	<u>L6</u>
<u>L5</u>	Li or l2	2165583	<u>L5</u>
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<u>L3</u>	L2 and l1	7	<u>L3</u>
<u>L2</u>	PEAD\$ AND authori\$ and @ad<=20020128	15	<u>L2</u>
<u>L1</u>	PEAD\$ AND authori\$ and @pd<=20020128	21	<u>L1</u>

END OF SEARCH HISTORY

Hit List

First Hit	Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
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Search Results - Record(s) 1 through 8 of 8 returned.

1. Document ID: US 20030004827 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 8

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030004827
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030004827 A1

TITLE: Payment system

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wang, Ynjiun P.	Cupertino	CA	US

US-CL-CURRENT: 705/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	TOC	Drawn
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2. Document ID: US 20020123967 A1

L4: Entry 2 of 8

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123967
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020123967 A1

TITLE: Methods of exchanging secure messages

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wang, Ynjiun P.	Cupertino	CA	US

US-CL-CURRENT: 705/51; 705/64

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	TOC	Drawn
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3. Document ID: US 20020023215 A1

L4: Entry 3 of 8

File: PGPB

Feb 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020023215

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020023215 A1

TITLE: Electronic transaction systems and methods therefor

PUBLICATION-DATE: February 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wang, Ynjiun P.	Cupertino	CA	US
Ding, Joshua C.	San Jose	CA	US
Grizzard, James A.	San Jose	CA	US

US-CL-CURRENT: 713/171; 380/259, 380/277, 713/184

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Previous](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequence](#) | [Attachments](#) | [Claims](#) | [KMD](#) | [Dra...](#)

4. Document ID: US 6850916 B1

L4: Entry 4 of 8

File: USPT

Feb 1, 2005

US-PAT-NO: 6850916

DOCUMENT-IDENTIFIER: US 6850916 B1

TITLE: Portable electronic charge and authorization devices and methods therefor

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Previous](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequence](#) | [Attachments](#) | [Claims](#) | [KMD](#) | [Dra...](#)

5. Document ID: US 6594759 B1

L4: Entry 5 of 8

File: USPT

Jul 15, 2003

US-PAT-NO: 6594759

DOCUMENT-IDENTIFIER: US 6594759 B1

TITLE: Authorization firmware for conducting transactions with an electronic transaction system and methods therefor

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Previous](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequence](#) | [Attachments](#) | [Claims](#) | [KMD](#) | [Dra...](#)

6. Document ID: AU 2002367640 A1, US 20020123967 A1, WO 2003081377 A2

L4: Entry 6 of 8

File: DWPI

Oct 8, 2003

DERWENT-ACC-NO: 2002-740281

TITLE: Internet-based secure message reception method involves decrypting digital data representing secure message if share secret is found in share secret table in portable electronic authorization device

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [Cited](#) | [Drawn](#)

7. Document ID: CN 1366263 A

L4: Entry 7 of 8

File: DWPI

Aug 28, 2002

DERWENT-ACC-NO: 2003-020344

DERWENT-WEEK: 200302

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TITLE: Electronic trade system and its method business transaction between an electronic trading system with electronic service authorization signature being used and a portable electronic authorization device

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [Cited](#) | [Drawn](#)

8. Document ID: AU 2002247213 A1, US 20020023215 A1, WO 200269291 A2, TW 560159 A

L4: Entry 8 of 8

File: DWPI

Sep 12, 2002

DERWENT-ACC-NO: 2002-267483

DERWENT-WEEK: 200433

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TITLE: Electronic transaction request approval in portable electronic authorization device, involves decrypting private key of specific user of PEAD using decryption key of remote server, if transaction request is user approved

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [Cited](#) | [Drawn](#)

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Terms	Documents
L2 not L1	8

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L9: Entry 3 of 6

File: DWPI

Sep 12, 2002

DERWENT-ACC-NO: 2002-267483

DERWENT-WEEK: 200433

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TITLE: Electronic transaction request approval in portable electronic authorization device, involves decrypting private key of specific user of PEAD using decryption key of remote server, if transaction request is user approved

INVENTOR: DING, J C; GRIZZARD, J A ; WANG, Y P

PATENT-ASSIGNEE: ESIGN CORP (ESIGN), DING J C (DINGI), GRIZZARD J A (GRIZI), WANG Y P (WANGI)

PRIORITY-DATA: 2001US-0792224 (February 23, 2001), 1996US-0759555 (December 4, 1996), 1998US-0067176 (April 27, 1998), 2000US-0523825 (March 13, 2000), 2000US-0668213 (September 22, 2000)

[Search Selected](#) [Search ALL](#) [Clear](#)**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> AU 2002247213 A1	September 12, 2002		000	G07F019/00
<input type="checkbox"/> US 20020023215 A1	February 21, 2002		035	H04L009/00
<input type="checkbox"/> WO 200269291 A2	September 6, 2002	E	000	G07F019/00
<input type="checkbox"/> TW 560159 A	November 1, 2003		000	H04L009/32

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
AU2002247213A1	February 22, 2002	2002AU-0247213	
AU2002247213A1		WO 200269291	Based on
US20020023215A1	December 4, 1996	1996US-0759555	Cont of
US20020023215A1	April 27, 1998	1998US-0067176	CIP of
US20020023215A1	March 13, 2000	2000US-0523825	CIP of
US20020023215A1	September 22, 2000	2000US-0668213	CIP of
US20020023215A1	February 23, 2001	2001US-0792224	
US20020023215A1		US 5917913	Cont of
US20020023215A1		US 6175922	CIP of

US20020023215A1

WO 200269291A2

TW 560159A

February 22, 2002

July 12, 2001

US 6282656

2002WO-US05701

2001TW-0117080

CIP of

INT-CL (IPC): G07 F 19/00; H04 K 1/00; H04 L 9/00; H04 L 9/32; H04 L 12/00

RELATED-ACC-NO: 1998-333677;2001-102124 ;2001-501645 ;2002-740281 ;2003-220737 ;2003-707494

ABSTRACTED-PUB-NO: US20020023215A

BASIC-ABSTRACT:

NOVELTY - The portable electronic authorization device (PEAD) (200) receives the transaction request in the form of digital data. If the transaction request is approved by a user of the PEAD, the private key of the specific user is decrypted using the decryption key of a remote server. The decrypted digital data is transmitted to the electronic transaction system for encryption by the user private key.

USE - For electronic transactions through computer networks like Internet, automated teller machines, automated point-of-sale systems and automated library systems.

ADVANTAGE - Eliminates risk of unauthorized access to the account of the user and unauthorized procurement of user identity. Is portable and permits user to perform transaction authentication, conveniently and comfortably.

DESCRIPTION OF DRAWING(S) - The figure shows the PEAD for securely approving transactions conducted by electronic transaction system.

Portable electronic authorization device 200

ABSTRACTED-PUB-NO: US20020023215A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/13

DERWENT-CLASS: T01 T05 W01

EPI-CODES: T01-N01A1; T05-L01D; T05-L02; T05-L03C1; W01-A05B;

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Search Results - Record(s) 1 through 6 of 6 returned.

1. Document ID: US 20020023215 A1

L9: Entry 1 of 6

File: PGPB

Feb 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020023215

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020023215 A1

TITLE: Electronic transaction systems and methods therefor

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Draw. C...](#)

2. Document ID: US 2747794 A

L9: Entry 2 of 6

File: USPT

May 29, 1956

US-PAT-NO: 2747794

DOCUMENT-IDENTIFIER: US 2747794 A

TITLE: TEXT AVAILABLE IN USOCR DATABASE

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Draw. C...](#)

3. Document ID: AU 2002247213 A1, US 20020023215 A1, WO 200269291 A2, TW 560159 A

L9: Entry 3 of 6

File: DWPI

Sep 12, 2002

DERWENT-ACC-NO: 2002-267483

DERWENT-WEEK: 200433

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TITLE: Electronic transaction request approval in portable electronic authorization device, involves decrypting private key of specific user of PEAD using decryption key of remote server, if transaction request is user approved

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Draw. C...](#)

4. Document ID: FR 2747794 A1

L9: Entry 4 of 6

File: DWPI

Oct 24, 1997

DERWENT-ACC-NO: 1997-539067
DERWENT-WEEK: 199750
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TITLE: Terrestrial seismic reflection survey - having distance between implanted geophones and firing points increased n times, with unchanged mirror points and degree of multiple cover

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Abstract](#) [Detailed Abstract](#) [Claims](#) [EPOC](#) [Drawings](#)

5. Document ID: DE 2747794 A, FR 2407540 A, GB 1602671 A, GB 1602672 A, US 4295127 A

L9: Entry 5 of 6

File: DWPI

May 3, 1979

DERWENT-ACC-NO: 1979-E1135B
DERWENT-WEEK: 197919
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TITLE: Large traffic control signal - has display elements movable by electromagnets between two signalling positions

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Abstract](#) [Detailed Abstract](#) [Claims](#) [EPOC](#) [Drawings](#)

6. Document ID: US 2747794 A

L9: Entry 6 of 6

File: USOC

May 29, 1956

PAT-NO: 2747794
DOCUMENT-IDENTIFIER: US 2747794 A
TITLE: OCR SCANNED DOCUMENT

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Abstract](#) [Detailed Abstract](#) [Claims](#) [EPOC](#) [Drawings](#)

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Terms	Documents
L6 and (cell\$ and transaction)	6

Display Format: [Change Format](#)

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L4: Entry 8 of 8

File: DWPI

Sep 12, 2002

DERWENT-ACC-NO: 2002-267483

DERWENT-WEEK: 200433

COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Electronic transaction request approval in portable electronic authorization device, involves decrypting private key of specific user of PEAD using decryption key of remote server, if transaction request is user approved

INVENTOR: DING, J C; GRIZZARD, J A ; WANG, Y P

PATENT-ASSIGNEE: ESIGN CORP (ESIGN), DING J C (DINGI), GRIZZARD J A (GRIZI), WANG Y P (WANGI)

PRIORITY-DATA: 2001US-0792224 (February 23, 2001), 1996US-0759555 (December 4, 1996), 1998US-0067176 (April 27, 1998), 2000US-0523825 (March 13, 2000), 2000US-0668213 (September 22, 2000)

[Search/Selected](#) [Search/ALL](#) [Clear](#)**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> AU 2002247213 A1	September 12, 2002		000	G07F019/00
<input type="checkbox"/> US 20020023215 A1	February 21, 2002		035	H04L009/00
<input type="checkbox"/> WO 200269291 A2	September 6, 2002	E	000	G07F019/00
<input type="checkbox"/> TW 560159 A	November 1, 2003		000	H04L009/32

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
AU2002247213A1	February 22, 2002	2002AU-0247213	
AU2002247213A1		WO 200269291	Based on
US20020023215A1	December 4, 1996	1996US-0759555	Cont of
US20020023215A1	April 27, 1998	1998US-0067176	CIP of
US20020023215A1	March 13, 2000	2000US-0523825	CIP of
US20020023215A1	September 22, 2000	2000US-0668213	CIP of
US20020023215A1	February 23, 2001	2001US-0792224	
US20020023215A1		US 5917913	Cont of

US20020023215A1	US 6175922	CIP of
US20020023215A1	US 6282656	CIP of
WO 200269291A2	February 22, 2002	2002WO-US05701
TW 560159A	July 12, 2001	2001TW-0117080

INT-CL (IPC): G07 F 19/00; H04 K 1/00; H04 L 9/00; H04 L 9/32; H04 L 12/00

RELATED-ACC-NO: 1998-333677;2001-102124 ;2001-501645 ;2002-740281 ;2003-220737 ;2003-707494

ABSTRACTED-PUB-NO: US20020023215A

BASIC-ABSTRACT:

NOVELTY - The portable electronic authorization device (PEAD) (200) receives the transaction request in the form of digital data. If the transaction request is approved by a user of the PEAD, the private key of the specific user is decrypted using the decryption key of a remote server. The decrypted digital data is transmitted to the electronic transaction system for encryption by the user private key.

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ADVANTAGE - Eliminates risk of unauthorized access to the account of the user and unauthorized procurement of user identity. Is portable and permits user to perform transaction authentication, conveniently and comfortably.

DESCRIPTION OF DRAWING(S) - The figure shows the PEAD for securely approving transactions conducted by electronic transaction system.

Portable electronic authorization device 200

ABSTRACTED-PUB-NO: US20020023215A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/13

DERWENT-CLASS: T01 T05 W01

EPI-CODES: T01-N01A1; T05-L01D; T05-L02; T05-L03C1; W01-A05B;

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L4: Entry 4 of 8

File: USPT

Feb 1, 2005

US-PAT-NO: 6850916

DOCUMENT-IDENTIFIER: US 6850916 B1

TITLE: Portable electronic charge and authorization devices and methods therefor

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Ynjiun Paul	Cupertino	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Esignx Corporation	Cupertino	CA			02

APPL-NO: 09/260384 [PALM]

DATE FILED: March 2, 1999

PARENT-CASE:

This application is a continuation-in-part of a patent application entitled "Electronic Transaction Systems and Methods Therefor," filed Apr. 27, 1998 by inventor Ynjiun P. Wang (U.S. application Ser. No. 09/067,176)

INT-CL-ISSUED: [07] G06 F 17/60

US-CL-ISSUED: 705/64; 705/67, 705/75, 705/76, 235/380, 235/379

US-CL-CURRENT: 705/64; 235/379, 235/380, 705/67, 705/75, 705/76

FIELD-OF-CLASSIFICATION-SEARCH: 705/1, 705/26, 705/64, 705/67, 705/75-76, 380/30, 380/285, 235/379, 235/380, G06F 1760, G06F017/60

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4701601</u>	October 1987	Francini et al.	235/449
<input type="checkbox"/> <u>4791283</u>	December 1988	Burkhardt	235/438
<input type="checkbox"/> <u>4868376</u>	September 1989	Lessin et al.	235/492
<input type="checkbox"/> <u>5373561</u>	December 1994	Haber et al.	380/49

<input type="checkbox"/>	<u>5416842</u>	May 1995	Aziz	380/30
<input type="checkbox"/>	<u>5440633</u>	August 1995	Augustine et al.	380/23
<input type="checkbox"/>	<u>5455863</u>	October 1995	Brown et al.	380/23
<input type="checkbox"/>	<u>5524052</u>	June 1996	Augustine et al.	380/49
<input type="checkbox"/>	<u>5548106</u>	August 1996	Liang et al.	235/454
<input type="checkbox"/>	<u>5623637</u>	April 1997	Jones et al.	395/491
<input type="checkbox"/>	<u>5721781</u>	February 1998	Deo et al.	380/25
<input type="checkbox"/>	<u>5724423</u>	March 1998	Khello	380/23
<input type="checkbox"/>	<u>5748737</u>	May 1998	Daggar	380/24
<input type="checkbox"/>	<u>5815657</u>	September 1998	Williams et al.	395/186
<input type="checkbox"/>	<u>5841886</u>	November 1998	Rhoads	382/115
<input type="checkbox"/>	<u>5875394</u>	February 1999	Daly et al.	455/411
<input type="checkbox"/>	<u>5901228</u>	May 1999	Crawford	380/25
<input type="checkbox"/>	<u>5907142</u>	May 1999	Kelsey	235/380
<input type="checkbox"/>	<u>5910987</u>	June 1999	Ginter et al.	705/30
<input type="checkbox"/>	<u>5917913</u>	June 1999	Wang	705/75
<input type="checkbox"/>	<u>5963924</u>	October 1999	Williams et al.	705/39
<input type="checkbox"/>	<u>6000607</u>	December 1999	Ohki et al.	235/379
<input type="checkbox"/>	<u>6006328</u>	December 1999	Drake	713/200
<input type="checkbox"/>	<u>6016484</u>	January 2000	Williams et al.	705/40
<input type="checkbox"/>	<u>6088687</u>	July 2000	Leleu	
<input type="checkbox"/>	<u>6195177</u>	February 2001	Marechal	358/434
<input type="checkbox"/>	<u>6523119</u>	February 2003	Pavlin et al.	713/192

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
261030	March 1988	EP	
11252069	September 1999	JP	
WO 9825371	June 1998	WO	
WO 9946691	September 1999	WO	
WO 0052866	September 2000	WO	

OTHER PUBLICATIONS

Kawase et al., Proposal of secure remote access using encryption, IEEE Globecom 1998 conference, vol. 2, pp. 868-873, Dec. 8, 1998 (Dialog file 2).*

Elsbury, Personal authentication devices--data security applications, Proc. of the 5th IFIP Inter. Conf., pp. 471-478, May 19, 1988 (Dialog file 2).*

Smith, A new authentication device, Electronic banking & finance, v2 n3, pp. 4-5, May 1985 (Dialog files 2).*

Sandlund, Pick a card, any card (PCMCIA card devices . . .), PC Computing, v7 n11,

p172(12), Nov. 1994 (Dialog file 275).*

Carol H. Fancher, "In your pocket smartcards," Electronic Payments, IEEE Spectrum, Feb. 1997, Motorola, Inc., pp. 47-53.

ART-UNIT: 3625

PRIMARY-EXAMINER: Nguyen; Cuong H.

ATTY-AGENT-FIRM: Moser Patterson & Sheridan LLP

ABSTRACT:

A portable transaction arrangement for permitting a user to conduct a charge card transaction vis-a-vis a charge card terminal of an electronic transaction system. The charge card terminal is configured to communicate with a charge card for the purpose of conducting the charge card transaction. The charge card is one of a magnetic stripe card and an electronic smart card. The portable transaction arrangement includes an emulation card having an emulation card interface. The emulation card interface emulates an interface of the charge card. The interface of the charge card facilitates communication between the charge card and the charge card terminal. There is also included a portable emulation card configuring device arranged to be used in conjunction with the emulation card, which in turn includes a memory configured to store first charge card data pertaining to a first charge card of the user, and an authentication mechanism. The portable emulation card configuring device is configured to write from the memory the first charge card data to the emulation card if the user is authenticated through the authentication mechanism, thereby allowing the emulation card to appear through the emulation card interface, after writing and for the purpose of conducting the transaction, like the first charge card to the charge card terminal and enabling the charge card terminal to read the first charge card data from the emulation card to conduct the charge card transaction.

14 Claims, 15 Drawing figures

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L4: Entry 5 of 8

File: USPT

Jul 15, 2003

US-PAT-NO: 6594759

DOCUMENT-IDENTIFIER: US 6594759 B1

TITLE: Authorization firmware for conducting transactions with an electronic transaction system and methods therefor

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Ynjiun P.	Cupertino	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Esignx Corporation	Cupertino	CA			02

APPL-NO: 09/222368 [PALM]

DATE FILED: December 29, 1998

PARENT-CASE:

This application is a continuation of a patent application entitled "Portable Electronic Authorization Devices and Methods Therefor," filed Dec. 4, 1996 by inventor Ynjiun P. Wang (U.S. application Ser. No. 08/759,555) now U.S. Pat. No. 5,917,913

INT-CL-ISSUED: [07] H04 L 9/30, H04 L 12/22

US-CL-ISSUED: 713/182; 713/150, 713/161, 713/172, 380/277

US-CL-CURRENT: 713/182; 380/277, 713/150, 713/161, 713/172

FIELD-OF-CLASSIFICATION-SEARCH: 713/157, 713/150, 713/161, 713/172, 713/182, 713/184, 380/30, 380/247

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

 [Search Selected](#) [Search All](#) [Clear](#)

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>5373561</u>	December 1994	Haber et al.	380/49
<input type="checkbox"/> <u>5416842</u>	May 1995	Aziz	380/30
<input type="checkbox"/> <u>5440633</u>	August 1995	Augustine et al.	380/23

<input type="checkbox"/>	<u>5455863</u>	October 1995	Brown et al.	380/23
<input type="checkbox"/>	<u>5524052</u>	June 1996	Augustine et al.	380/49
<input type="checkbox"/>	<u>5548106</u>	August 1996	Liang et al.	235/454
<input type="checkbox"/>	<u>5586304</u>	December 1996	Stupek et al.	717/170
<input type="checkbox"/>	<u>5623637</u>	April 1997	Jones et al.	380/23
<input type="checkbox"/>	<u>5724423</u>	March 1998	Khello	380/23
<input type="checkbox"/>	<u>5796840</u>	August 1998	Davis	705/51
<input type="checkbox"/>	<u>5841865</u>	November 1998	Sudia	380/21
<input type="checkbox"/>	<u>5844986</u>	December 1998	Davis	713/187
<input type="checkbox"/>	<u>5848155</u>	December 1998	Cox	380/28
<input type="checkbox"/>	<u>5917913</u>	June 1999	Wang	380/25
<input type="checkbox"/>	<u>6088687</u>	July 2000	Leleu	
<input type="checkbox"/>	<u>6510519</u>	January 2003	Wasilewski et al.	713/168

OTHER PUBLICATIONS

The NPL Intelligent Token and Its Application, Wyn L. Price, National Physical Laboratory, Teddington, UK, Eurocrypt 1986.

Carol H. Fancher, "In your pocket smartcards," Electronic Payments, IEEE Spectrum, Feb. 1997, Motorola, Inc., pp. 47-53.

ART-UNIT: 2132

PRIMARY-EXAMINER: Barron; Gilberto

ASSISTANT-EXAMINER: Zand; Kambiz

ATTY-AGENT-FIRM: Moser, Patterson & Sheridan, LLP

ABSTRACT:

A computer configured to authenticate a user to an electronic transaction system is disclosed. The computer includes a central processing unit and electronic authorization firmware disposed within the computer and in electronic communication with the central processing unit. The electronic authorization firmware includes a non-volatile memory circuit configured to store at least one of a user private key and user identification data and a firmware identification data. The electronic authorization firmware further includes decryption logic circuitry disposed between the non-volatile memory circuit and the electronic transaction system. The decryption logic circuitry is configured to prevent unauthorized access to at least one of the user private key and the user identification data in the non-volatile memory circuit. The electronic authorization firmware also includes encryption logic circuit coupled to the electronic transaction system and configured to transmit digital data encrypted using the user private key for transmission to the electronic transaction system. The digital data authenticates the user to the electronic transaction system, wherein the non-volatile memory is inaccessible by the central processing unit without traversing the decryption logic circuitry.

25 Claims, 14 Drawing figures

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L4: Entry 6 of 8

File: DWPI

Oct 8, 2003

DERWENT-ACC-NO: 2002-740281

DERWENT-WEEK: 200432

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TITLE: Internet-based secure message reception method involves decrypting digital data representing secure message if share secret is found in share secret table in portable electronic authorization device

INVENTOR: WANG, Y P

PATENT-ASSIGNEE: ESIGN CORP (ESIGN), WANG Y P (WANGI)

PRIORITY-DATA: 2001US-0026848 (December 21, 2001), 1998US-0067176 (April 27, 1998)

 [Search Selected](#) [Search All](#) [Clear](#)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> AU 2002367640 A1	October 8, 2003		000	G06F017/60
<input type="checkbox"/> US 20020123967 A1	September 5, 2002		029	G06F017/60
<input type="checkbox"/> WO 2003081377 A2	October 2, 2003	E	000	G06F000/00

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
AU2002367640A1	December 18, 2002	2002AU-0367640	
AU2002367640A1		WO2003081377	Based on
US20020123967A1	April 27, 1998	1998US-0067176	CIP of
US20020123967A1	December 21, 2001	2001US-0026848	
US20020123967A1		US 6282656	CIP of
WO2003081377A2	December 18, 2002	2002WO-US40616	

INT-CL (IPC): G06 F 0/00; G06 F 17/60

RELATED-ACC-NO: 1998-333677;2001-102124 ;2001-501645 ;2002-267483 ;2003-220737 ;2003-707494

ABSTRACTED-PUB-NO: US20020123967A

BASIC-ABSTRACT:

NOVELTY - A share secret is searched from a share secret table in a portable electronic authorization device (PEAD) (200). Received digital data representing a secure message, is decrypted, if the share secret is found otherwise a share secret is computed in the PEAD.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Internet-based secure message transmission method; and
- (2) Internet-based secure message exchanging method.

USE - For receiving a secure message pertaining to an electronic transaction conducted over Internet.

ADVANTAGE - Allows transaction approvals to occur within the portable electronic authorization device (PEAD), hence enhances the confidentiality of the user identification data and the user's private key and enhances the integrity of the transaction process.

DESCRIPTION OF DRAWING(S) - The figure shows a portable electronic authorization device.

Portable electronic authorization device 200

ABSTRACTED-PUB-NO: US20020123967A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/12

DERWENT-CLASS: T01 T05

EPI-CODES: T01-J05B3; T01-M06A1A; T01-N01A1; T05-L02;

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L4: Entry 7 of 8

File: DWPI

Aug 28, 2002

DERWENT-ACC-NO: 2003-020344

DERWENT-WEEK: 200302

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TITLE: Electronic trade system and its method business transaction between an electronic trading system with electronic service authorization signature being used and a portable electronic authorization device

PATENT-ASSIGNEE: ESIGN CO (ESIGN)

PRIORITY-DATA: 2001CN-0101983 (January 18, 2001)

 PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> CN 1366263 A	August 28, 2002		000	G06F017/60

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CN 1366263A	January 18, 2001	2001CN-0101983	

INT-CL (IPC): G06 F 13/14; G06 F 17/60; G06 K 9/00; H04 L 9/00

ABSTRACTED-PUB-NO: CN 1366263A

BASIC-ABSTRACT:

NOVELTY - The invention discloses a method its and device for examining and approving request of business transaction between an electronic trading system with electronic service authorization signature being used and a portable electronic authorization device (PEAD) carried by a user. The method includes PEAD accepts a first digital receipt representing request of business transaction. The PEAD provides an information of approving request for the user. When the user approves the request, the PEAD accepts a second digital receipt representing electronic service authorization signature. The invention includes a remote agent acting as a bridge between the electronic trading system and the PEAD. The invented method and device can be used in sales point, providing trading capability safely and expediently.

ABSTRACTED-PUB-NO: CN 1366263A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: T01 T05

EPI-CODES: T01-N01A1; T01-N02B1B; T05-L02;

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Search Results - Record(s) 1 through 10 of 21 returned.

1. Document ID: US 6282656 B1

Using default format because multiple data bases are involved.

L1: Entry 1 of 21

File: USPT

Aug 28, 2001

US-PAT-NO: 6282656

DOCUMENT-IDENTIFIER: US 6282656 B1

TITLE: Electronic transaction systems and methods therefor

DATE-ISSUED: August 28, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Ynjiun Paul	Cupertino	CA	95014	

US-CL-CURRENT: 726/4; 713/182, 713/187, 726/5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Text	Image	Claims	TOC	Drawn
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2. Document ID: US 6231871 B1

L1: Entry 2 of 21

File: USPT

May 15, 2001

US-PAT-NO: 6231871

DOCUMENT-IDENTIFIER: US 6231871 B1

TITLE: Live in ovo vaccine

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Text	Image	Claims	TOC	Drawn
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3. Document ID: US 6175922 B1

L1: Entry 3 of 21

File: USPT

Jan 16, 2001

US-PAT-NO: 6175922

DOCUMENT-IDENTIFIER: US 6175922 B1

TITLE: Electronic transaction systems and methods therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Text	Image	Claims	TOC	Drawn
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4. Document ID: US 5917913 A

L1: Entry 4 of 21

File: USPT

Jun 29, 1999

US-PAT-NO: 5917913

DOCUMENT-IDENTIFIER: US 5917913 A

TITLE: Portable electronic authorization devices and methods therefor

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [EPOC](#) | [Drawn](#)

5. Document ID: US 5641480 A

L1: Entry 5 of 21

File: USPT

Jun 24, 1997

US-PAT-NO: 5641480

DOCUMENT-IDENTIFIER: US 5641480 A

TITLE: Hair care compositions comprising heteroatom containing alkyl aldonamide compounds

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [EPOC](#) | [Drawn](#)

6. Document ID: CN 1452739 A, US 6175922 B1, WO 200169388 A1, AU 200120597 A, CN 1360265 A, EP 1272933 A1, KR 2002081435 A, TW 487864 A, JP 2003527714 W

L1: Entry 6 of 21

File: DWPI

Oct 29, 2003

DERWENT-ACC-NO: 2001-501645

DERWENT-WEEK: 200409

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TITLE: Approval of transaction request between electronic transaction system and portable electronic authorization device, involves sending PEAD electronic service authorization token upon approval of request

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [EPOC](#) | [Drawn](#)

7. Document ID: US 6850916 B1, WO 200052866 A2, AU 200040043 A, EP 1159700 A2, KR 2001108292 A, CN 1344396 A, JP 2003517658 W

L1: Entry 7 of 21

File: DWPI

Feb 1, 2005

DERWENT-ACC-NO: 2001-102124

DERWENT-WEEK: 200511

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TITLE: Portable transaction arrangement of electronic transaction system, has portable emulation card configuring device to write charge card data from memory to

emulation card if user is authenticated

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Specification	Claims	TOC	Draw
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8. Document ID: US 3218439 A

L1: Entry 8 of 21

File: USOC

Nov 16, 1965

US-PAT-NO: 3218439

DOCUMENT-IDENTIFIER: US 3218439 A

TITLE: Vote tallying machine

DATE-ISSUED: November 16, 1965

INVENTOR-NAME: GEROLD HOLZER; HARRY WILCOCK

US-CL-CURRENT: 235/386

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Specification	Claims	TOC	Draw
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9. Document ID: US 3071335 A

L1: Entry 9 of 21

File: USOC

Jan 1, 1963

US-PAT-NO: 3071335

DOCUMENT-IDENTIFIER: US 3071335 A

TITLE: Flight control system

DATE-ISSUED: January 1, 1963

INVENTOR-NAME: CARTER JR EDWARD S

US-CL-CURRENT: 244/175; 244/17.13, 342/63

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Specification	Claims	TOC	Draw
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10. Document ID: US 2988192 A

L1: Entry 10 of 21

File: USOC

Jun 13, 1961

US-PAT-NO: 2988192

DOCUMENT-IDENTIFIER: US 2988192 A

TITLE: Locking mechanism for chair seats

DATE-ISSUED: June 13, 1961

INVENTOR-NAME: HOWER JAMES H

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Advanced Search](#) | [Claims](#) | [WOIN](#) | [Drawings](#)

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Search Results - Record(s) 11 through 20 of 21 returned.

11. Document ID: US 2976354 A

Using default format because multiple data bases are involved.

L1: Entry 11 of 21

File: USOC

Mar 21, 1961

US-PAT-NO: 2976354

DOCUMENT-IDENTIFIER: US 2976354 A

TITLE: Tape recording and translating and the like

DATE-ISSUED: March 21, 1961

INVENTOR-NAME: BANNING JR THOMAS A; RANSEEN EMIL L

US-CL-CURRENT: 360/116, 347/120, 386/43, 455/127.1, 455/185.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	DDMDC	Drawn
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12. Document ID: US 2750277 A

L1: Entry 12 of 21

File: USOC

Jun 12, 1956

US-PAT-NO: 2750277

DOCUMENT-IDENTIFIER: US 2750277 A

TITLE: Process and apparatus for reducing and smelting iron

DATE-ISSUED: June 12, 1956

INVENTOR-NAME: MARSHALL WILLIAM E

US-CL-CURRENT: 75/443; 266/157, 266/163, 266/171, 266/172, 266/173, 266/175,
75/446, 75/475

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	DDMDC	Drawn
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13. Document ID: US 2747794 A

L1: Entry 13 of 21

File: USOC

May 29, 1956

US-PAT-NO: 2747794

DOCUMENT-IDENTIFIER: US 2747794 A

TITLE: OCR SCANNED DOCUMENT

DATE-ISSUED: May 29, 1956

INVENTOR-NAME: Name not available

US-CL-CURRENT: 235/60.28; 101/93.35

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [PWO](#) | [Drawings](#)

14. Document ID: US 2636435 A

L1: Entry 14 of 21

File: USOC

Apr 28, 1953

US-PAT-NO: 2636435

DOCUMENT-IDENTIFIER: US 2636435 A

TITLE: OCR SCANNED DOCUMENT

DATE-ISSUED: April 28, 1953

INVENTOR-NAME: Name not available

US-CL-CURRENT: 101/93.36; 101/93.11, 101/93.12, 235/3, 235/60.31

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [PWO](#) | [Drawings](#)

15. Document ID: US 2630269 A

L1: Entry 15 of 21

File: USOC

Mar 3, 1953

US-PAT-NO: 2630269

DOCUMENT-IDENTIFIER: US 2630269 A

TITLE: OCR SCANNED DOCUMENT

DATE-ISSUED: March 3, 1953

INVENTOR-NAME: Name not available

US-CL-CURRENT: 235/426; 235/431

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [PWO](#) | [Drawings](#)

16. Document ID: US 2562567 A

L1: Entry 16 of 21

File: USOC

Jul 31, 1951

US-PAT-NO: 2562567

DOCUMENT-IDENTIFIER: US 2562567 A

TITLE: Momentary control switch

DATE-ISSUED: July 31, 1951

INVENTOR-NAME: SYDNEY MOLEDZKY

US-CL-CURRENT: 200/61.51; 340/440

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Detailed Description](#) | [Claims](#) | [POMC](#) | [Draw. & Spec.](#)

17. Document ID: US 2540030 A

L1: Entry 17 of 21

File: USOC

Jan 30, 1951

US-PAT-NO: 2540030

DOCUMENT-IDENTIFIER: US 2540030 A

TITLE: Selectively controlled recording apparatus

DATE-ISSUED: January 30, 1951

INVENTOR-NAME: HAMILTON FRANCIS E; HAYES MAXWELL F ; WOLFE JOHN D

US-CL-CURRENT: 400/68, 235/489, 400/63, 400/71, 400/80

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Detailed Description](#) | [Claims](#) | [POMC](#) | [Draw. & Spec.](#)

18. Document ID: US 2443652 A

L1: Entry 18 of 21

File: USOC

Jun 22, 1948

US-PAT-NO: 2443652

DOCUMENT-IDENTIFIER: US 2443652 A

TITLE: Totalizer engaging mechanism

DATE-ISSUED: June 22, 1948

INVENTOR-NAME: CAREY EDWARD J

US-CL-CURRENT: 235/60.31; 235/2, 473/71

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Detailed Description](#) | [Claims](#) | [POMC](#) | [Draw. & Spec.](#)

19. Document ID: US 2378820 A

L1: Entry 19 of 21

File: USOC

Jun 19, 1945

US-PAT-NO: 2378820

DOCUMENT-IDENTIFIER: US 2378820 A

TITLE: Lubricating oil

DATE-ISSUED: June 19, 1945

INVENTOR-NAME: EARL AMOTT

US-CL-CURRENT: 508/313; 252/389.22, 508/353, 508/390, 508/417

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Detailed Description](#) | [Claims](#) | [DOC](#) | [Drawings](#)

20. Document ID: US 2217244 A

11: Entry 20 of 21

File: USOC

Oct 8, 1940

US-PAT-NO: 2217244

DOCUMENT-IDENTIFIER: US 2217244 A

TITLE: Weighing scale

DATE-ISSUED: October 8, 1940

INVENTOR-NAME: WILLIAMS LAWRENCE S

US-CL-CURRENT: 177/173; 177/178, 177/224, 353/40

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Detailed Description](#) | [Claims](#) | [DOC](#) | [Drawings](#)

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Terms	Documents
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